



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 2, 2018

Mr. Pedro Perdomo
Regulatory Specialist
Nippon Soda Co., Ltd.
c/o Nisso America Inc.
88 Pine Street 14th Floor
New York, NY 10005

Subject: Label Amendment – Clarified WSP language
Product Name: F4688 50 WSP Insecticide Termiticide
EPA Registration Number: 8033-96
Application Date: 26-Sept-2017
Decision Number: 539583

Dear Mr. Perdomo:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2
EPA Reg. No. 8033-96
Decision No. 539583

with FIFRA section 6. If you have any questions, please contact Matthew Aubuchon by phone at 703 347-0477, or via email at Aubuchon.Matthew@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'EF' followed by a flourish and the word 'for'.

Elizabeth Fertich, Product Manager 4
Invertebrate and Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

ACCEPTED

08/02/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 8033-96

F4688 50 WSP Insecticide Termiticide

DRAFT WSP language 09.20.2017 with edit on 02.06.18



F4688 50 WSP Insecticide Termiticide

For Information Regarding the Use of this Product Call 800-321-1FMC (1362)

To control termites and listed household pests indoors and around the exterior perimeter of residential institutional, public, commercial, industrial buildings, and food/feed handling establishments.

When used as a termiticide, individuals/firms must be licensed by the state to apply this product. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your state prior to use of this product.

EPA Reg. No. 8033-96

EPA Est. No.: _____

Active Ingredients:	By Wt.
Acetamiprid	22.73 %
Bifenthrin*	27.27 %
Other Ingredients:	50.00 %
	100.00%

*Cis isomers 97% minimum, trans isomers 3% maximum.

7.5 ounce water soluble bag or
0.3 ounce water soluble bag

Net Contents:

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
If swallowed	<ul style="list-style-type: none"> Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For MEDICAL and TRANSPORTATION Emergencies Only Call CHEMTREC AT 1-800-424-9300.	
NOTE TO PHYSICIAN	
This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.	

PRECAUTIONARY STATEMENTS CAUTION

Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as U-Turn®), or an in-line injector system, shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space or when applying termiticide by rodding or sub-slab injection.

Use one of the following NIOSH approved respirator with any R, P or HE filter or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

ENGINEERING CONTROLS STATEMENT

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard [40 CFR 170.607(d)]. Mixers and loaders handling this product while it is enclosed in intact water soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down."

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

When using the product as a termiticide and treating adjacent to an existing structure, the applicator must check the area to be treated, as well as immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean up is completed.

Environmental Hazards

This pesticide is extremely toxic to wildlife, fish, and aquatic invertebrates. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are foraging the treatment area.

Physical and Chemical Hazards

Do not apply water-based dilutions of F4688 50 WSP Insecticide Termiticide to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

Instructions for Using Water Soluble Packages Directly into Spray tanks:

Water Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with

water to the desired level, close the tank lid, and resume agitation.

12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Keep water-soluble packets in this container and store in a cool dry place but not below freezing (32°F). Do not remove packets from container except for immediate use.

For the following public health pests, do not apply less than the application rates specified on the label:

Ants (including Red Imported Fire Ants and Carpenter Ants), Bed Bugs, Bees, Biting Flies, Carpenter Bees, Centipedes, Chiggers, Clover Mites, Cockroaches, Fleas, Flies, Gnats, Ground-nesting (solitary) bees and wasps, Midges, Mosquitoes, Scorpions, Spider Mites, Spiders (including Black Widow and Brown Recluse), Ticks (including Brown Dog Ticks), Wasps

APPLICATION RATE CHART

If Using a 7.5 Ounce Bag

Number of Gallons Desired	Termite Uses		Household Pest Uses	
	Number of 7.5 Ounce Bags	Dilution Rate (% active ingredient)	Number of 7.5 Ounce Bags	Dilution Rate (% active ingredient)
25	1	0.11%	1	0.11%
50	2	0.11%	1	0.06%
75	3	0.11%	1	0.04%
100	4	0.11%	1	0.03%

If Using a 0.3 Ounce Bag

Application Rate: Number of F4688 50WP Water-Soluble Packets ¹	Gals of Water	Concentration of Active Ingredient
1 packet (0.3 oz)	1 gallon	0.11%Active Ingredient
1 packet (0.3 oz)	2 gallons	0.06%Active Ingredient
1 packet (0.3 oz)	3 gallons	0.04%Active Ingredient
1 packet (0.3 oz)	4 gallons	0.03%Active Ingredient
1 packet (0.3 oz)	5 gallons	0.02%Active Ingredient

Restrictions: For Household Pest Uses – Under conditions of severe pest infestation or when quicker knockdown and/or longer residual control is needed, use 0.3 ounces of F4688 50 WSP per 1,000 sq. ft. Do not dilute further than one (1) 7.5 ounce bag in 100 gallons of water or one (1) 0.3 ounce bag in 5 gallons of water.

DILUTION CHART

Dilution Chart for Perimeter Barrier Applications Around Structures

	F4688 50 WP 0.3 ounce water soluble bags to add			
Application Volume per 1,000 sq. ft.	Total Mix volume			
	1 Gallon	3 Gallons	5 Gallons	10 Gallons
1 gal/1,000 sq. ft.	1packet	3 packets	5 packets	10 packets
2 gal/1,000 sq. ft.				5 packets
2.5 gal/1,000 sq. ft.			2 packets	
3 gal/1,000 sq. ft.		1 packet		
5 gal/1,000 sq. ft.			1 packet	2 packets

	F4688 50 WP 7.5 ounce water soluble bags ^a to add			
Application Volume per 1,000 sq. ft.	Total Mix volume			
	25 Gallon	50 Gallon	75 Gallon	100 Gallon
1 gal/1,000 sq. ft.	1 packet	2 packets	3 packets	4 packets
2 gal/1,000 sq. ft.		1 packet		2 packets

^a One (1) 7.5 ounce water soluble bag treats no less than 25,000 square feet.

Subterranean Termite Control

Please note that annual inspections are recommended in any termite management program.

The insecticidal dilution must be adequately dispersed in the soil to establish an effective barrier between the wood and the termites in the soil. For effective termite management the following cultural practices should be incorporated into the management program: 1) all non-essential wood and cellulose containing materials should be removed from around foundation walls, crawl spaces, and porches; 2) Repairing faulty plumbing and/or construction grade to eliminate termite access to moisture. Soil around untreated structural wood in contact with soil should be treated as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current termite control practices such as: trenching, rodding, sub-slab injection, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be correctly employed to control infestations by subterranean termites such as: *Coptotermes*, *Heterotermes*, *Reticulitermes* and *Zootermopsis*. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Large numbers of termites may be killed by the treatment of infested termite monitor stations, tree roots, stumps, fence posts, wooden barrels, planters, trellises, mailbox posts, mulch and other infested articles. These treatments should not be considered as a replacement for a structural protection treatment but as an augmentation to it.

Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities.

For advice concerning current control practices with relation to specific local conditions, consult resources in structural pest control and state cooperative extension and regulatory agencies.

Important	Contamination of public and private water supplies must be avoided by following these precautions: Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies. Do not contaminate cisterns or wells. Do not treat soil that is water saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (HUD) for guidance.
Critical Areas	Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joints, bath traps and areas where cement constructions have

	been poured adjacent to the foundation such as stairs, patios and slab additions.
Application Rate	One (1) 7.5 ounce WSP per 25 gallons of water. When properly mixed in water, the end use dilution after adding one 7.5-ounce bag of F4688 50 WSP Insecticide Termiticide to 25 gallons of water for termites is 0.11% active ingredient
Mixing Directions	Fill tank 1/4 to 1/3 full with water. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add F4688 50 WSP bag(s). Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes. F4688 50 WSP Insecticide Termiticide may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the dilution.
Application Volume	To provide maximum control and protection against termite infestation apply the specified volume of the finished water dilution and active ingredient as set forth in the directions for use section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same. Certain elements of a structure may not need to be treated, such as the drilling and treatment of basement slabs in northern states. Large reductions of application volume reduce the ability to obtain a continuous treated zone. Variance is allowed when volume and concentration are consistent with label directed rates and a continuous treated zone can still be achieved. Where desirable for pre and post construction treatments, the volume of the F4688 50 WSP Insecticide Termiticide dilution may be reduced by 1/2 the labeled volume (and doubling the amount of F4688 50 WSP Insecticide Termiticide). When volume is reduced, the hole spacing for sub-slab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the termiticide in the soil.
After Treatment	All holes in commonly occupied areas into which F4688 50 WSP Insecticide Termiticide has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

Pre-Construction Subterranean Termite Control

Effective pre-construction subterranean Termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using a 0.11% dilution of F4688 50 WSP Insecticide Termiticide or one (1) 7.5 ounce WSP per 25 gallons water.

Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to the installation of the finished grade.

When treating foundations deeper than 4 feet, apply the F4688 50 WSP Insecticide Termiticide dilution as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Horizontal Barriers	Create a horizontal barrier wherever treated soil within the foundation will be covered by a slab, such as, slab floors, carports, and the soil beneath stairs and crawl spaces if covered by a slab. Apply 1 gallon of dilution per 10 square feet, to provide thorough and continuous coverage of the area being treated. If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill. Applications should be made by a low-pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If the slab will not be poured the same day as treatment, cover treated soil with a waterproof barrier such as polyethylene sheeting. This is not necessary if foundation walls have been installed around the treated soil.
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Vertical Barriers	<p>Vertical barriers must be established in areas such as around the base of foundations, plumbing, utility entrances, back-filled soil against foundation walls and other critical areas.</p> <p>Apply 4 gallons of dilution per 10 linear feet per foot of depth from grade to top of footing to ensure complete coverage.</p> <ol style="list-style-type: none"> When trenching and rodding into the trench, or trenching, it is important that the dilution reaches the top of the footing. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart. Care should be taken to avoid soil washout around the footing. Trenches need not be wider than 6 inches. The dilution should be mixed with the soil as it is being replaced in the trench. For a monolithic slab, an inside vertical barrier may not be required. <p>Hollow block voids may be treated at a rate of 2 gallons of dilution per 10 linear feet so that the dilution will reach the top of the footing.</p>
	<p>Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.</p>
	<p>The treatment site must be covered prior to a rain event in order to prevent run-off of the pesticide into non-target areas. The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different than the contractor). If notice is provided to the contractor or the person commissioning the application, then they are responsible under FIFRA to ensure that: 1) if the concrete slab cannot be poured over the treated soil within 24 hours of application the treated soil is covered with a waterproof covering (such as polyethylene sheeting), and 2) the treated soil is covered if precipitation is predicted to occur before the concrete slab is scheduled to be poured.</p> <p>Do not treat soil that is water-saturated or frozen. Do not treat when raining. Do not allow treatment to run-off from the target area. Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats (such as, but not limited to lakes; reservoirs, rivers; permanent streams; marshes or ponds; estuaries; and commercial fish farm ponds).</p> <p>Do not make on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.</p>
Post-Construction Subterranean Termite Control	
	<p>Post-construction soil applications shall be made by injection, trenching and rodding into the trench or trenching, or coarse fan spray with pressures not exceeding 25p.s.i. at the nozzle. Care should be taken to avoid soil washout around the footing.</p>
Important	<p>Do not apply dilution until location of wells, radiant heat pipes, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these elements.</p>
Foundations	<p>For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements at the rate prescribed from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.</p>

Slabs	<p>Vertical barriers may be established by sub-slab injection within the structure and trenching and rodding into the trench or trenching outside at the rate of 4 gallons of dilution per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly to establish a continuous barrier. Treatment should not extend below the bottom of the footing.</p> <p>Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior footing-supported walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodding or by grid pattern injection vertically through the slab.</p> <ol style="list-style-type: none"> Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier. For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The dilution should be applied to the trench and soil at 4 gallons of dilution per 10 linear feet per foot of depth as the soil is replaced in the trench. For foundations deeper than 1 foot follow rates for basement. Exposed soil and wood in bath traps should be treated with the dilution.
Basements	<p>Where the footing is greater than 1 foot of depth from grade to the bottom of the foundation, application must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of dilution per 10 linear feet per foot of depth. When the footer is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced to provide a continuous insecticidal barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. However, in no case should a structure be treated below the footer. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-supported walls.</p>
Masonry Voids	<p>Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of dilution per 10 linear feet of footing, using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined: Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.</p>
Excavation Technique	<p>If treatment must be made in difficult situations, along fieldstone or rubble walls, along faulty foundation walls, and around pipes and utility lines which lead downward from the structure to a well or pond, application may be made in the following manner:</p> <ol style="list-style-type: none"> Trench and remove soil to be treated onto heavy plastic sheeting or similar material. Treat the soil at the rate of 4 gallons of dilution per 10 linear feet per foot of depth of the trench. Mix the dilution thoroughly into the soil taking care to prevent liquid from running off the sheeting. After the treated soil has absorbed the liquid dilution, replace the soil in the trench.

<p>Accessible Crawl Spaces</p>	<p>For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of dilution per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.</p> <ol style="list-style-type: none"> 1. Rod holes and trenches must not extend below the bottom of the footing. 2. Rod holes must be spaced so as to achieve a continuous termiticide barrier but in no case more than 12 inches apart. 3. Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The dilution must be mixed with the soil as it is replaced in the trench. 4. When treating plenums or crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.
<p>Inaccessible Crawl Spaces</p>	<p>For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods.</p> <ol style="list-style-type: none"> 1. To establish a horizontal barrier, apply to the soil surface, 1 gallon of dilution per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or power spray with higher pressures. 2. To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of dilution per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many States have smaller intervals, so check State regulations that may apply. <p>When treating plenums and crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil. Important: Crawl spaces are to be considered inside of the structure.</p>
<p>Application Under Slabs or to Soil in Crawlspace to Prevent or Control Termites and other Indoor Household Pests</p>	<p>Application may be made using F4688 50 WSP Insecticide Termiticide foam alone or in combination with liquid dilution. The equivalent of at least 4 gallons of dilution per 10 linear feet (vertical barrier), or at least 1 gallon of dilution per 10 square feet (horizontal barrier) must be applied either as dilution, foam, or a combination of both.</p> <p>See Household Pest Control Indoor Section for Complete Pest List.</p>
<p>Termite Control</p>	

<p>The purpose of the applications described below is to kill termite workers or winged reproductives that may be present at the time of treatment. These applications are intended as supplements to, and not substitutes for, mechanical alteration, soil treatment or foundation treatment.</p>	
<p>Exposed Workers and Winged Reproductives</p>	<p>To control exposed workers and winged reproductive termites in localized areas, apply 0.11% dilution of F4688 50 WSP Insecticide Termiticide as a pinstream, spot, or crack and crevice spray on the outside of buildings, porches, wooden decks and patios, wooden fences around buildings, window frames, doorways, foundations, eaves, patios, garages, and other building where you may find these pests. Spray infested areas until thoroughly wet, avoiding dripping and runoff. Applications may also be made to inaccessible areas by drilling and then injecting the dilution or foam, with a suitable directional injector, into damaged wood or wall voids. All treatment holes drilled in construction elements in commonly occupied areas of structures should be securely plugged after treatment.</p>
<p>Termite Carton Nests in Building Voids</p>	<p>To control termite carton nests in building voids, apply 0.11% dilution of F4688 50 WSP Insecticide Termiticide as a liquid or foam using a pointed injection tool. Multiple injection points and varying depths of injection may be necessary to achieve control. When possible, the carton nest material should be removed from the building void after treatment.</p>
<p>Termite Carton Nests in Trees</p>	<p>Termite carton nests in trees may be injected with a dilution or sufficient volume of foam using a pointed injection tool. Multiple injection points to varying depths may be necessary. In some instances, a perimeter application of the dilution applied to soil around the root flare of the tree may be necessary to prevent reinfestation by termites in the soil. Apply liquid or foam to the voids in the tree to fill the voids.</p>
<p>Sand Barrier Installation and Treatment</p>	
<p>Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move F4688 50 WSP Insecticide Termiticide treated soil. Susceptible cracks and spaces can be filled with builder's or play box sand and the sand treated with F4688 50 WSP Insecticide Termiticide. The sand should be treated as soil following the termiticide rate listed on the F4688 50 WSP Insecticide Termiticide label.</p>	
<p>Structures with Adjacent Wells/Cisterns and/or Other Water Bodies</p>	
<p>Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application</p> <ol style="list-style-type: none"> 1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade. 2. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment. 3. When appropriate (i.e., on the water side of the structure), the treated backfill technique (described in the Excavation Technique section above) can also be used to minimize off-site movement of termiticide. <p>Prior to using this technique near wells or cisterns, consult state, local or federal agencies for information regarding approved treatment practices in your area.</p>	

Structures with Wells/Cisterns Inside Foundations	<p>Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:</p> <ol style="list-style-type: none"> 1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows: <ol style="list-style-type: none"> a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow. b. Treat the soil at the rate of 4 gallons of dilute dilution per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage. c. After the treated soil has absorbed the diluted dilution, replace the soil into the trench. 2. Treat infested and/or damaged wood in place using an injection technique such as described in the "Control of Wood Infesting Insects" section of this label.
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Application in Conjunction with the Use of Termite Baits

As part of the integrated pest management (IPM) program for termite control, F4688 50 WSP Insecticide Termiticide may be applied to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks and areas with known or suspected infestations as a spot treatment or complete barrier treatment. Applications may be made as described in the post-construction treatment section of this label.

Retreatment

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product's labeling. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions and other factors that may reduce the effectiveness of the barrier.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.

Restrictions

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until the clean up is completed.

When treating behind veneer care should be taken not to drill beyond the veneer. If concrete blocks are behind the veneer, both the blocks and the veneer may be drilled and treated at the same time.

Not for use in voids insulated with rigid foam insulation.

FOAM APPLICATIONS

The F4688 50 WSP Insecticide Termiticide dilution may be converted to foam with expansion characteristics from 2 to 40 times for localized control or prevention of pests including ants, bees, termites, wasps or other arthropods harboring in walls, under slabs or in other void areas.

Depending on the circumstances, foam applications may be used alone or in combination with liquid dilution applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to insure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid dilution volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

Use dry foam (20:1 or greater expansion ratio) for applications to wall voids and stud walls.

Use wet foam (5:1 or lower expansion ratio) for applications to soil, including applications to filled porches.

Mixing table for F4688 50 WSP Insecticide Termiticide Foam
 If Using a 0.3 Ounce Bag

Desired Foam Expansion Ratio	Amount of F4688	Gallons of Water	Finished Foam (Gallons)	Finished Foam % a.i.
4:1	2 packets	1.0	4	0.06
10:1	5 packets	1.0	10	0.06
20:1	10 packets	1.0	20	0.06
4:1	4 packets	1.0	4	0.11
10:1	10 packets	1.0	10	0.11
20:1	20 packets	1.0	20	0.11

Household Pest Control – Outdoor Pinstream, Spot, Crack and Crevice or Perimeter Treatment

Controls	<p>Ants (including Red Imported Fire Ants and Carpenter Ants) (but excluding Pharaoh ants and Argentine ants) Bees Beetles* Biting Flies Boxelder Bugs Centipedes Chiggers Clover Mites Cockroaches Crickets Earwigs Elm Leaf Beetles Firebrats Fleas Flies Gnats</p>	<p>Ground-nesting (solitary) bees and wasps Midges Millipedes Mosquitoes Moths Pillbugs Scorpions Silverfish Sowbugs Spider Mites Spiders (including Black Widow) Springtails Stink bugs Ticks (including Brown Dog Ticks) Wasps</p> <p style="text-align: right;">*Not for use in California</p>
Where to Apply	<p>Apply as a pinstream, spot, crack and crevice, or perimeter spray on and around outside surfaces of residential and non-residential buildings and structures including, exterior siding, foundations, porches, window frames, eaves, patios, garages, areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, storage sheds, and other structures, and other areas where pests congregate or have been seen. While this product is not for use on turf or lawns, adjacent (i.e., perimeter) treatment is permitted, as directed by the Perimeter Treatment Application Rate. Follow Additional Application Restrictions for Residential Outdoor Surface and Space Sprays.</p>	
Perimeter Treatment Application Rate	<p>As a perimeter treatment, apply as a continual band up to 10 foot wide around the structure and upwards along the foundation to a height of up to 3 feet and around</p>	

	windows, doors, other penetrations and roof eaves, soffits, and overhangs. 0.3 ounces per 1,000 to 2,000 square feet in sufficient amount of water (see Dilution Chart) and apply adequately to cover area. Do not apply more than 0.3 ounces of F4688 50 WSP Insecticide Termiticide per 1,000 square feet.
Mixing Directions	Fill tank 1/4 to 1/3 full with water. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add F4688 50 WSP Insecticide Termiticide bag(s). Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes. For backpacks and handheld sprayers, use the 0.3 ounce sized bag. Fill the tank 1/2 full with water. Add F4688 50 WSP Insecticide Termiticide water soluble bag(s). Agitate tank after adding water and allow 1 to 2 minutes for bags to dissolve in water. Add remaining water. Close application equipment and agitate or shake tank to dissolve any bag remnants in the tank. F4688 50 WSP Insecticide Termiticide may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the dilution.
Repeat Application	Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity.
Restrictions	Do not water the treated area to the point of run-off. Do not make applications during rain. All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label: 1) Applications to soil or vegetation, as listed on this label, around structures; 2) Applications to the side of a building, up to a maximum height of 3 feet above grade; 4) Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure; 5) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width; 6) Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests. Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only. Applications to vertical exterior surfaces (e.g., foundations are permitted to a maximum height of 3 feet from ground level. Sections of vertical exterior surfaces that abut non-porous horizontal surfaces can only be treated if either 1) these sections are protected from rainfall and spray from sprinklers or 2) they do not drain into a sewer, storm drain, or curbside gutter (e.g., not to sections that abut driveways or sidewalks that drain into streets). For sections of foundation that abut non-porous horizontal surfaces, the treated areas must be protected from rainfall and spray from sprinklers so they do not drain into a sewer, storm drain, or curbside gutter (e.g. not to sections that abut driveways or sidewalks that drain into streets). Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Outdoor Ant Control	
Carpenter Ants	Apply F4688 50 WSP Insecticide Termiticide as a pinstream, spot, crack and crevice, or perimeter spray to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage. For best results, locate and treat carpenter ant nests. Apply a perimeter treatment using either low or high volume applications described in the Household Pest Control - Outdoor section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. The following procedures must be followed to help achieve maximum control of the pest: 1) Treat non-porous surfaces only in areas protected from rainfall and spray from sprinklers with low volume applications using 0.3 ounces of F4688 50 WSP Insecticide Termiticide per 1,000 to 2,000 square feet in one gallon of water. 2) Treat porous surfaces and vegetation with high volume applications using 0.3 ounces per 1,000 square feet in up to 5 gallons of water.3) Treat the trunks of trees that have carpenter ant trails or upon which carpenter ants are foraging using 0.3 ounces per 1,000 to 2,000 square feet in up to 5 gallons of water ,and applying this dilution to thoroughly wet the bark from the base of the tree to as high as possible on the trunk.
Nuisance Ants Outdoors and Fire Ants	For best results, locate and treat ant nests. Apply F4688 50 WSP Insecticide Termiticide as a pinstream, spot, crack and crevice or perimeter treatment to ant trails around doors and windows and other places where ants have been observed or are expected to forage. Apply a perimeter treatment using either low or high volume applications described in the Household Pest Control - Outdoor section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. The following procedures must be followed to help achieve maximum control of the pest: 1) Treat non-porous surfaces only in areas protected from rainfall and spray from sprinklers with low volume applications using 0.3 ounces of F4688 50 WSP Insecticide Termiticide per 1,000 to 2,000 square feet in one gallon of water. 2) Treat porous surfaces and vegetation with high volume applications using 0.3 ounces of F4688 50 WSP Insecticide Termiticide per 1,000 to 2,000 square feet in up to five gallons of water.

Specific Pest Control Applications	
Ant and Fire Ant Mounds	Drench individual mounds with 1-2 gallons of F4688 50 WSP Insecticide Termiticide using 0.3 ounces of F4688 50 WSP Insecticide Termiticide for each mound area. Treat the mound until it is wet and treat 3-feet out around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.
Carpenter ants in trees, utility poles, fencing, deck materials and similar structural members	Drill to locate the interior infested cavity and inject or foam 0.11% dilution (see Dilution Chart) into the cavity using a sufficient volume and an appropriate treatment tool with a splash-back guard.
Ground-nesting (solitary) Bees and Wasps (including Bumble Bees, Sweat Bees, Mining Bees, Digger Bees, Leafcutting Bees, Digger or Threadwaisted Wasps)	Ground-nesting bees and wasps are helpful biocontrol agents and valuable pollinators. They should be ignored if possible. If control is necessary, however, nest entrances must first be located. Watch the insects during the day when they are active. Groups of single nests occur in bare soil, grassy / weedy areas, or cavities of shrubs, stems, twigs, or logs. Treatment of tunnels and the surrounding area at dusk or after dark improves product contact to individual in-ground nest dwellers. Individual nest drenches should be applied by using 0.3 ounces of F4688 50 WSP Insecticide Termiticide per 1,000 square feet in and around each cavity. Cover the entrance hole with soil after application. For preventative treatment, broadcast F4688 50 WSP Insecticide Termiticide in enough finished volume of water to

	penetrate the groundcover so that 0.3 ounces are applied per 1000 square feet.
Wood piles and stored lumber	To protect firewood or lumber from carpenter ants (and termites), make up a 0.11% dilution (see Dilution Chart) of F4688 50 WSP Insecticide Termiticide and apply at a rate of one gallon (0.3 ounces) per 1,000 square ft. Apply as a spot treatment to the soil beneath where the firewood or lumber will be stacked at the rate of one gallon of dilution per 8 square feet. Wood can be burned as firewood or used as lumber one month after treatment.
Underground Services	Underground Services such as: wires, cables, utility lines, pipes, conduits, etc. Services may be within structures or located outside of structures. Soil treatment may be made using F4688 50 WSP Insecticide Termiticide dilution to prevent attack by Termites and Ants. Apply 2 gallons of 0.11% dilution (see Dilution Chart) per 10 linear feet to the bottom of the trench and allow liquid to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the services. It is important to establish a continuous barrier of treated soil surrounding the services. Where soil will not accept the above-labeled volume, 1 gallon of 0.11% dilution of F4688 50 WSP Insecticide Termiticide may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services. Finish filling the trench with treated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of 0.11% dilution into the soil.
Posts, Poles, and Other Constructions	Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation. Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of 0.11% dilution (see Dilution Chart) per foot of depth for poles and posts less than six inches in diameter. For larger poles, use 1.5 gallons of 0.11% dilution per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.
Pests Under Slabs	Infestations of Arthropods, such as Ants, Cockroaches and Scorpions inhabiting under slab areas may be controlled by drilling and injecting or horizontal rodding and then injecting 1 gallon of 0.11% dilution (see Dilution Chart) per 10 square feet or 2 gallons of 0.11% dilution per 10 linear feet.
Pest Control in Crawspaces and Voids	Apply F4688 50 WSP Insecticide Termiticide to all surfaces in crawspace and/or voids to control ants, fleas, roaches, scorpions, or other arthropods at a rate of 0.3 ounces per 1,000 square feet (see Dilution Chart). Product may also be applied through insecticidal delivery systems such as piping or flexible tubing mounted under and/or around the structure as a crack and crevice or spot treatment. This treatment is not intended as a substitute for termite control. Treat surfaces to point of runoff. Keep children and pets off surface until dry.

Controls	Ants (including Red Imported Fire Ants and Carpenter Ants) (but excluding Pharaoh ants and Argentine ants) Bed Bugs Bees Beetles (including Carpet Beetles) Boxelder Bugs Centipedes Cockroaches Crickets Earwigs Firebrats Fleas Flies Gnats Midges Millipedes Moths (including Cloth Moths) Pillbugs Scorpions Silverfish Sowbugs Spiders (including Black Widow and Brown Recluse) Springtails Stink bugs Ticks Wasps
Where to Apply	Apply for residual pest control in residential and non-residential buildings and structures. Apply either as a crack and crevice, pinstream, spot, coarse, low-pressure spray (25 p.s.i. or less) or with a paintbrush. Apply to areas where pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, dishwashers, cabinets, sinks, furnaces, stoves, the underside of shelves, drawers and similar areas and other possible pest harborage sites. Do not use as a space spray. Pay particular attention to cracks and crevices. Do not apply as a broadcast spray indoors.
Application Rate	Apply 0.3 ounces per 1,000 to 2,000 square feet in sufficient amount of water to adequately cover the treatment area. Do not apply more than 0.3 ounces of F4688 50 WSP Insecticide Termiticide per 1,000 square feet.
Mixing Directions	For backpacks and handheld sprayers, use the 0.3 ounce sized bag. Fill the tank ½ full with water. Add F4688 50 WSP Insecticide Termiticide water soluble bag(s). Allow 1 to 2 minutes for bags to dissolve in water. Add remaining water. Close application equipment and agitate or shake tank to dissolve any bag remnants in the tank. Mixing with warm water (68°F or higher) will decrease WSP dissolution time.
Ants (including Carpenter Ants and Nuisance Ants) (but excluding Pharaoh ants and Argentine ants)	Apply to areas where ants have been observed or are expected to forage. Particular attention should be given to treating entry points into the home or premises such as around doors and windows and other places where ants and ant trails may be found. For added Carpenter Ant control, spray or foam into cracks and crevices or drill holes and spray, mist or foam into voids where Carpenter Ants or their nests are present. When using F4688 50WSP Insecticide Termiticide in combination with baits, apply F4688 50WSP Insecticide Termiticide as instructed above, and use baits in other areas that have not been treated with F4688 50WSP Insecticide Termiticide
Bed Bugs	To control Bed Bugs, use a 0.11% active ingredient dilution rate where evidence of bed bugs occurs. (See Dilution chart for mixing instructions) Thorough application should be made to crack and crevices where evidence of bed bugs occurs. This includes bed frames, box springs, mattresses, inside empty luggage, dressers and clothes closets and carpet edges, high and low wall moldings and wallpaper edges, wall hangings, mirrors, pictures, electrical switch plates, furniture, door frames, bookcases and window frames. For infested mattresses, remove linens and wash before reuse. Apply to tufts, seams, folds, and edges until moist. Allow to dry before remaking bed. When treating furniture, pay special attention to tufts, folds, seams and difficult-to-access areas. On furniture do not apply to seating areas, arms or areas where direct skin contact can occur. Do not use this product on bed linens, pillows, or clothes. Remove all clothes and other articles from luggage, dressers or clothes closets before application. Allow all treated areas to thoroughly dry before use. Not recommended for use as sole protection against bedbugs

Household Pest Control - Indoor

Bees and Wasps	To control Bees, Wasps, Hornets, and Yellow Jackets indoors, application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible.
Occasional Invaders	To control Boxelder Bugs, Centipedes, Earwigs, Beetles, Millipedes, Pillbugs, and Sowbugs, apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations.
Crawling and Flying Insect Pests	To control Cockroaches, Crickets, Firebrats, Flies, Gnats, Midges, Moths, Scorpions, Silverfish, Spiders, apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under dishwashers, refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.
Restrictions	In the home, cover all food processing surfaces and utensils during treatment or thoroughly washed before use. Remove or cover exposed food before application. Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Specific Indoor Pest Control Applications	
Warehouses and Stores	F4688 50 WSP Insecticide Termiticide may be applied as a spot or crack and crevice treatment in non-food storage warehouses and stores. Apply no more than 0.3 ounces per 1,000 to 2,000 square feet in sufficient amount of water to adequately cover the treatment area. Apply to all areas that may harbor pests, including under and between pallets, bins and shelves. Do not apply direct to food grain bins (interior) or animals.

Food/Feed Handling Establishment Applications			
Controls	Ants (including Red Imported Fire Ants and Carpenter Ants) (excluding Pharaoh ants and Argentine ants) Bed Bugs Bees Beetles (including Carpet Beetles) Boxelder Bugs Centipedes	Cockroaches Crickets Earwigs Firebrats Fleas Flies Gnats Midges Millipedes Moths (including Cloth Moths)	Pillbugs Scorpions Silverfish Sowbugs Spiders (including Black Widow and Brown Recluse) Springtails Stink bugs Ticks Wasps
Where to Apply	<p>Applications of this product are permitted in both food/feed and non-food areas of food/feed establishments as a spot or crack and crevice treatment.</p> <p>Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served, which includes areas for receiving, storing, packaging (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, edible oils, syrups) or food. Service areas where food is exposed and the facility is in operation are also considered food areas.</p> <p>Permitted non-food areas of use include, garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling).</p> <p>Permitted use sites include : aircraft (do not use in aircraft cabins), apartment buildings, bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food</p>		

Application Rate	manufacturing plants, food processing plants, food service establishments, granaries, grain mills, grocery stores (do not apply directly to the interior of food grain bins) hospitals, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes, offices, pet stores (do not apply directly to the interior of food grain bins or animals), railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses and wineries.
Spot, Crack and Crevice Application	Apply 0.06% to 0.11% (0.3 ounces) per 1,000 to 2,000 square feet in sufficient amount of water (see Dilution Chart) and apply adequately to cover area. Do not apply more than 0.3 ounces of F4688 50 WSP Insecticide Termiticide per 1,000 square feet. To control Bed Bugs, use a 0.11% active ingredient dilution rate where evidence of bed bugs occurs. (See Dilution chart for mixing instructions)
Mixing Directions	<p>Spot or crack and crevice applications may be made while the facility is in operation; however, cover or remove food from area being treated. Do not apply directly to food.</p> <p>Fill tank 1/4 to 1/3 full with water. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add F4688 50 WSP bag(s). Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.</p> <p>For smaller tanks, fill tank 1/2 full with water. Add desired F4655 50 WSP Insecticide Termiticide water soluble bag(s). Allow 1 to 2 minutes for dissolution of water soluble bags. Close application equipment and agitate or shake tank.</p> <p>F4688 50 WSP Insecticide Termiticide may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the dilution.</p> <p>F4688 50 WSP Insecticide Termiticide may be converted to a foam and used to treat void spaces or as a spot spray on vertical horizontal surfaces where visual marking of application is desired. Use of a foaming agent increases a.i. surface contact time on challenging surfaces and provides visual marking of the application. Ensure that the foaming agent is approved for food surface/area contact use.</p> <p>See Foam Application section for mixing table and rates.</p>
Foam Applications	

RESTRICTIONS

Do not apply in a perimeter treatment to areas beyond 10 feet from the foundation of the structure, unless using as a spot treatment.

Do not use as a space spray.

Do not use in and around the exterior perimeter of commercial barns, stables, and paddocks. Do not use in grazing areas, feed lots or other similar areas used for housing, boarding, and/or rearing animals. This product may be used around barns and stables on residential property.

Do not apply by air.

Do not apply as a broadcast spray indoors or as a broadcast spray on lawns and turf.

Do not apply in greenhouses or nurseries.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Do not apply this product through any kind of irrigation system.

Not for use on sod farm turf, golf course turf, or grass grown for seed.

Do not apply to pets, crops, or sources of electricity.

Do not treat electrically active underground services.

Do not treat areas when food is exposed. Cover or remove food from area being treated. Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.

Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.

Let surfaces dry before allowing people and pets to contact surfaces.

Prior to applying F4688 50 WSP Insecticide Termiticide to porous surfaces, test a small area and allow it to dry to be sure no deposits will form.

Application equipment that delivers low volume treatments, such as the Micro-Injector® or Actisol® applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of F4688 50 WSP Insecticide Termiticide

Wear protective clothing; unvented goggles, gloves and a respirator approved by NIOSH, when applying to overhead areas or in poorly ventilated or confined areas.

STORAGE AND DISPOSAL

Prohibitions: Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Do not allow inner bags to become wet during storage. Do not handle inner bag with wet bare hands or wet gloves. Do not put concentrate or diluted material into food or drink containers. **In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call Chemtrec at 1-800-424-9300.**

To Confine Spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal: Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal (for outer packaging and WSP bags/envelopes):

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.

Conditions of Sale of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of Nippon Soda Co., Ltd. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Nippon Soda Co., Ltd. and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. To the extent consistent with applicable law, Nippon Soda Co., Ltd. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT TO THE EXTENT ALLOWED BY STATE LAW. To the extent consistent with applicable law, any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or Nippon Soda Co., Ltd., and buyer assumes the risk of any such use.

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